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PTO/SB/21 (08-00) Approved for use through 10/31/2002. OMB 0651-0031

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		Applica	Application Number		10/043,337			
TRANSMITTAL FORM			Filing Date		January 14, 2002			
			First Named Inventor		Wayne Emest Conrad			
To be used for all corresponden	ce after initial filing)	Group	Group Art Unit		1724			
		Examin	Examiner Name		Richard L Chiesa			
Total Number of Pages in This Submission			Attorney Dacket Number		12811-39			
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Signature	Philip C Mendes da Costa Reg No 33,106							
Date Decemb	December 11, 2003							
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T-844

385 Request for Continued Examination (RCE)

SUBTOTAL (3) (\$)

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900 Request for expedited examination

of a design application

PTQ/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0851-0032
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE Linder the Paperwork Requiring Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known TRANSMITTAL 10/043 337 Application Number January 14, 2002 Filing Date for FY 2004 Emest Wayne Conrad First Named Inventor Effective 10101/2003 Patent tees are subject to annual revision. Richard L Chiesa Examiner Name Applicant claims small entity status See 37 CFR 1.27 1724 Art Unit 00.088 Attorney Docket No (\$) 12811-39 TOTAL AMOUNT OF PAYMENT FEE CALCULATION (continued) METHOD OF PAYMENT (check all that apply) 3. ADDITIONAL FEES Money Order Check Credit card Other Large Entity | Small Entity Deposit Account Fee (\$) Fee Fee Fee Description Fee Paid Code (\$) Code Deposit 022095 Account 2051 65 Surcharge - late filing fee or oath 130 1051 Number 25 Surcharge - late provisional filing tee or Deposit 50 2052 Bereskin & Parr cover sheet Account Name 130 Non-English specification 1053 130 1053 The Director is authorized to: (check all that apply) 1812 2,520 For filing a request for ex parte reexamination 1812 2,520 Charge ree(s) indicated below Credit any overpayments 1804 820" Requesting publication of SIR prior to 920 1804 Charge any additional tee(s) or any underpayment of tee(s) Charge fee(s) indicated below, except for the filing tee Requesting publication of SIR after 1805 1840 1805 1 840\* Examiner action to the above-identified deposit account 2251 Extension for reply within first month 1251 110 FEE CALCULATION 110.00 210 Extension for reply within second month 1252 420 2252 1. BASIC FILING FEE 1253 950 2253 475 Exension for reply within third month Small Entity arge Entity Fee Paid 740 Exension for reply within fourth month Fee Description 1254 1 480 2254 Code (\$) 1,005 Extension for reply within lifth month 1255 2,010 2255 1001 770 2001 385 Utility filing fee 330 2401 165 Notice of Appeal 1401 1002 340 2002 170 Design filing fee 1402 330 2402 165 Filing a brief in support of an appeal 1003 530 2003 265 Plant filing fee 145 Request for oral hearing 290 2403 1403 2004 385 Reissue filing fee 1004 770 1451 1,510 Petition to institute a public use proceeding 1451 1,510 2005 Provisional filing fee 1005 160 2452 55 Petition to revive - unavoidable 1452 110 SUBTOTAL (1) (\$) 0.00 1453 1,330 2453 665 Patition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 665 Utility issue fee (or rei≤≤ue) 2501 150T 1,330 Fee Paid 240 Design issue fee 1502 480 2502 Ext<u>ra Claur</u>s below 0.00 Total Claims X 320 Plant issue fee 30 1503 640 2503 Independent 0.00 130 Petroons to the Commissioner 1460 1460 130 Multiple Dependeni 50 Processing tee under 37 CFR 1 17(q) 1807 50 1807 180 Submission of Information Disclosure Stmt \_arge Entity Small Entity 1806 180 1808 Fee Description 40 Recording each patent assignment per Fee Fee Code (\$) Fee Fee Code (\$) 8021 40 8021 property (times number of properties) Claims in excess of 20 2202 1202 385 Filing a supmission after final rejection (37 CFR 1 129(a)) 18 2809 1809 770 Independent claims in excess of 3 1201 86 2201 43 385 For each additional invention to be 1203 290 2203 145 Multiple dependent daim, if not paid 1810 770 2810 examined (37 CFR 1 129(b)) Reissue independent daims 86 2204 43 1204 770.00

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Namo (Pnnt/Typo)	Philip C. Mendes da Costa	Registration No	33,106	Telephon	e (416) 364-7311
Signature	history de			Date	December 11, 2003

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Reissue claims in excess of 20

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This collection of information is required by 37 CFR 1.17 and 1.27. This information is required to obtain or retain a penefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandra, VA 22313-1450Dec-11-2003 11:46

PTO/SB/30 (08-00)

T-844

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## REQUEST FOR CONTINUED EXAMINATION (RCE) **TRANSMITTAL**

Subsection (b) of 35 U.S.C. § 132, effective on May 29, 2000, provides for continued examination of an utility or plant application filed on or after June 8, 1995. See The American Inventors Protection Act of 1999 (AIPA).

Application Number	10/043,337				
Filing Date	January 14, 2002				
Examiner Name	Richard L Chiesa				
First Named Inventor	Wayne Ernest Contad				
Group Art Unit	1724				
Attorney Docket Number	12811-39				
	<del></del>				

This is a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114 of the above-identified application 37 C.F.R. § 1.114 is effective on May 29, 2000 if the above-identified application was filed prior to May 29, NOTE: 37 C.F.R. § 1.114 is effective on May 28, 2000 in the subvention (CPA) under 37 C.F.R. § 1.53 (d) 2000, applicant may wish to consider filing a continued prosecution application (CPA) under 37 C.F.R. § 1.53 (d) (PTO/SB/29) instead of a RCE to be eligible for the patent term adjustment provisions of the AIPA. See Changes to Application Examination and Provisional Application Practice, Interim Rule, 65 Fed. Reg. 14865 (Mar. 20, 2000), 1233 Off Gaz Par. Office 47 (Apr. 11, 2000), which established RCE practice

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Applicant : Wayne Ernest Conrad

Appl. No : 10/043,337

Filed : January 14, 2002

Aritle : VACUUM CLEANER UTILIZING ELECTROSTATIC FILTRATION

AND ELECTROSTATIC PRECIPITATOR FOR USE THEREIN

Grp./A.U. :

1724

RECEIVED

Examiner : Richard L. Chiesa

DEC 16 2003

Docket No.

12811-39/PMdC

TC 1700

Honorable Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313–1450

## <u>RESPONSE</u>

Sir:

This is in response to the Final Office Action dated August 11, 2003, and is accompanied by a Request for Continued Examination and a request for a one-month extension of time and the associated fees of \$770.00 and \$110.00.

In the Office Action, the Examiner rejected claims 23, 27 and 32 under 35 U.S.C. 102(b) as being anticipated by, or in the alternative under 35 U.S.C. 103(a) as being obvious in view of, Rench et al. The Examiner stated that Rench et al. shows a vacuum cleaner with a cleaning head 111, a pivotally mounted upper body portion 10, a blower motor 61, removable cyclonic 21 and filter 23 separators. The Examiner stated that Rench et al. does not explicitly state the presence of a cyclonic container, but that it would be obvious to one skilled in the art that the 'pod' 27 is a container for cyclonic separator 21.

The applicant submits that claim 23 is directed to an upright vacuum cleaner having a cleaning head, an upper body portion pivotally mounted to the cleaning head, wherein the upper body portion includes a cyclonic cleaning stage having a removable cyclonic container therein. The vacuum cleaner further includes a motor for producing air flow, positioned above the cyclonic cleaning stage.

Typical upright vacuum cleaners have a common configuration whereby the motor is positioned in the floor cleaning head. One reason for this configuration is that the motor is typically heavy. If the motor were positioned in the handle at least some of the weight of the motor would always be carried by the user during use of the vacuum cleaner, whin the handle is angled away from the vertical. The higher up the motor is on the

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Appl. No. 10/043,337 Amdt. Dated December 10, 2003 Reply to Office action of

Dec-11-2003 11:46

upper body, the more weight is carried by the user during use. As such, it has become conventional to position the motor close to, or more typically, in the floor cleaning head.

As a separate consideration, it is desirable to position the motor downstream from the filtering means in the vacuum cleaner so that air that enters the motor inlet has been cleaned by the filtering means. When the filtering means is positioned in the upper body of the vacuum cleaner, the air must be routed back down from the filtering means to the motor, which is typically positioned in the floor cleaning head.

The applicant has instead positioned the motor above the cyclonic cleaning stage. In so doing, the air conduit from the cyclonic cleaning stage to the motor inlet may be made short and free of bends. As a result, the configuration of the present invention provides for a lower pressure drop, relative to the prior art configuration described above whereby the air is routed back into the floor cleaning head.

As a result of the reduced pressure drop, the motor may be made smaller than the motor that would otherwise be required. A smaller motor reduces the load borne by the user as a result of the motor's positioning in the upper body portion. Alternatively, the motor may be kept the same size as would have been required if the motor were positioned in the floor cleaning head, however, the overall performance of the vacuum cleaner is improved, because of the reduced pressure drop losses between the filtering means and the motor.

The applicant submits that Rench et al. differs from the claimed invention in several respects. The device of Rench et al. does not have an upper body portion that is pivotally connected with respect to the cleaning head. The applicant submits that only the handle of Rench et al., which is shown at 119 pivots with respect to the rest of the unit. Rench et al. describes the handle at column 10, lines 26-33 as being pivotally mounted to the front and rear sections 115 and 117. The handle 119 is also described as being lockable via a latch 121 so that the entire machine can be tipped during use. The applicant submits that in order for the latch 121 to lock the handle 119 in position, the latch itself must be attached to a fixed (ie. non-pivoting) portion of the machine. The applicant submits that as shown in Figure 1, the latch 121 appears to be mounted in a position that precludes the possibility of the 'pod' 27 being pivotally connected to the floor engaging brushes, shown at 13 and 15. Accordingly, the applicant submits that the device of Rench et al. does not meet the claim language of claim 23.

Furthermore, the applicant submits that the device of Rench et al. is not an upright vacuum cleaner, but is instead a specialized device for stroking carpet cleaning granules through a carpet and along the carpet fibres. The device stands on two oversized counter-rotating brushes 13 and 15, which are positioned under a shroud 107 (see Figure 3). The applicant submits that the specialized nature and function of the device of Rench et al. has resulted in its configuration, as described above, which is quite diff rent from that of an upright vacuum cleaner. The applicant submits that a person skilled in the art would not look to the device of Rench et al. particularly with Appl. No. 10/043,337 Amdt. Dated December 10, 2003 Reply to Office action of

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respect to issues regarding the weight of the upper body portion and the resulting load on the user's hand when holding the upper body portion during use.

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The applicant submits that claim 23 is neither anticipated by, nor obvious in view of Rench et al.

The applicant repeats and relies on the arguments made above for claim 23, for claims 27 and 32.

The Examiner has rejected claims 23, 27 and 32 under 35 U.S.C. 102(e) as being anticipated by, or in the alternative under 35 U.S.C. 103(a) as being obvious in view of Scalfani et al. The Examiner stated that Scalfani et al. shows a vacuum cleaner having a cleaning head 12, a pivotally mounted upper body portion 32, a blower motor 34 and removable cyclonic and filter separators 30 and 104. The Examiner admitted that Scalfani et al. does not disclose the presence of a cyclonic container, but does disclose a dirt cup 50. The Examiner stated that it would be obvious that the dirt cup 50 is a container for the cyclonic separation stage 30.

The applicant submits that the vacuum cleaner disclosed by Scalfani et al. is not an upright vacuum cleaner, but is instead a stick vacuum cleaner (see column 2, lines 51-52. The configuration disclosed by Scalfani et al. is typical of a stick vacuum cleaner, in that the device has essentially no components in the cleaning head, and instead has the filter means, the dirt cup and the motor all in the upper handle portion. Such vacuum cleaners are typically relatively lightweight and compact, and are designed for light duty cleaning only. As a direct result of its intended use, all of the components are relatively small as compared to an upright vacuum cleaner. For example, the suction inlet, the filter assembly and the motor are all typically significantly smaller than those provided on an upright vacuum cleaner, which directly results in their relative light weight. As a result of their light weight, the load borne by the user during use is generally small relative to the load borne by a user during use of an upright vacuum cleaner Furthermore, as a result of the small size of the components of a stick vacuum cleaner all of the components are positioned relatively close to the cleaning head, regardless of their configuration. Therefore, the cleaning head supports a significant portion of the load during use, and the portion of the load borne by the user is again small relative to the load incurred by the user of an upright vacuum cleaner. As a result of the fundamental differences between stick vacuum cleaners and upright vacuum cleaners, a person skilled in the art would not look to a stick vacuum cleaner, such as the device of Scalfani et al. with respect to issues regarding weight and positioning of the motor.

The applicant submits that claim 23 is neither anticipated by, nor obvious in view of Scalfani et al. The applicant repeats and relies on the argument made above for claim 23, for claims 27 and 32.

The Examiner has rejected claims 28-31 under 35 U.S.C. 103(a) as being obvious in view of either of Rench et al. or Scalfani et al. in combination with Fr y et al. The Examiner has reiterated his statements regarding Rench et al. and Scalfani et al, but Appl. No. 10/043,337 Amdt Dated December 10, 2003

Reply to Office action of

admitted that neith r Rench et al, nor Scalfani et al disclose a second separation stage that is an electrostatic precipitator. The Examiner stat d that Frey et al teach s a removable electrostatic precipitator positioned downstream from a cyclone and b low a blower motor.

The applicant repeats and relies on the arguments made above for claim 23, for claims 28-31. Furthermore, the device of Frey et al. is taught in the context of a canister vacuum cleaner. The applicant submits that there is no motivation to combine components from the canister vacuum cleaner of Frey et al. with the stick vacuum cleaner of Scalfani et al, or with the specialized carpet cleaning device of Rench et al. The applicant submits that such a combination of features could occur from these references only from a hindsight analysis. The applicant submits in any case, that the combination of features claimed in each of claims 28-31 are not obvious in view of Rench et al, Scalfani et al and Frey et al, either singly or in combination.

The applicant acknowledges the Examiner's presumption regarding common ownership of the claims, and the obligation under 37 CFR 1.56 to point out the inventor and invention dates for any claims not commonly owned at the time a later invention was made.

The applicant submits that the application is now in condition for allowance. The applicant respectfully requests that a timely Notice of Allowance be issued in this case. If the Examiner should have any concerns, he is invited to contact the undersigned.

Respectfully submitted,

**BERESKIN & PARR** 

Philip C. Mendes da Costa

Reg. No. 33,106 Tel: (416) 957-1695

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